**Earth System
Dynamics**
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Discussions

Interactive comment on "Seasonality of the hydrological cycle in major South and Southeast Asian River Basins as simulated by PCMDI/CMIP3 experiments" *by* S. Hasson et al.

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We are thankful to the anonymous referee # 1 for positive comments and useful suggestions that will lead to an improvement of the manuscript. In the following we explain how we are going to address the referee's comments.

1) Page 636, in Eq. (1) the integral should be divided by the area A.

The referee here is right. We will correct it in the revised version.

2) Page 636, in line 3 only three variables (P, E and R) are mentioned, while on line 7 and 9 authors refer to four variables.

We will add the 'P-E' on line 3 in the revised manuscript.

3) Page 636, in the right-hand side of Eq. (2) all term should be defined.

We will define all the terms of the right-hand side of Eq.2 in the revised version of the manuscript.

4) Page 637, lines 3-4 are not clear.

We agree with that. In the revised version, we will explain the content of lines 3-4 more clearly and we will remove the logical statement which indeed may be very confusing. The definition of monsoon retreat is already explained in the manuscript at Line 26-27, page 633. The condition given at line 3-4 on page 637 is just the expression to derive the retreat month. If explained in words, the logical statement will be as follows: "at the falling limb of the annual cycle of precipitation, any month is a retreat month if the precipitation amount in a month next to it roughly equals to the precipitation of a month previous to the onset month". We will add this statement in the revised version of our manuscript to make the expression more understandable.

5) Table 1: some of the acronyms differ from those used in the Figures. I suggest to homogenize or to add a column for the acronyms used in the paper. Moreover I suggest to order the models in Table 1 with the same order as in Figures.

We agree with the referee and we will homogenize the acronyms throughout the manuscript.

6) Finally, a careful proofreading of the paper is needed to eliminate some typos (e.g. "tessellation" on line 18, page 635; "precipitation" in line 23, page 650; extra comma in line 16, page 656; etc. the above list is not exhaustive).

Proofreading will be performed in order to address typo errors.

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